Abstract of the Disclosure

A gateway comprises a router module coupled between a local area network interface and a wide area network interface. The router module receives an outbound IP frame from the local area network interface and provides a corresponding translated outbound IP frame to the wide area network interface. The router module comprises a transport layer translation module for performing network address and port translation on an IP header of the outbound IP frame. The router module further comprises an application layer translation module for detecting the presence of media session signaling information within payload of the outbound IP frame and performing network address translation and port translation of source network address information identified in the media session signaling information. Both the network address and port translation of the IP header and the network address and port translation of the source network address information are recorded in a translation table such that inbound frames may be reverse translated.